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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/522,858		04/04/2005	Massimo Paladini	CIO 002	4891	
39232	7590	08/18/2005		EXAMINER		
Serafini As		11270	ZUCKER, PAUL A			
7660 FAY A LA JOLLA,			ART UNIT	PAPER NUMBER		
·				1621		
				DATE MAILED: 08/18/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	1		
	Application No.	Applicant(s)	
Office Asking Commence	10/522,858	PALADINI ET AL.	
Office Action Summary	Examiner	Art Unit	
·	Paul A. Zucker	1621	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address -	:
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-7 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	vn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-7</u> is/are rejected.			
7) Claim(s) is/are objected to.	•		
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Examine	г.		
10)⊠ The drawing(s) filed on 31 January 2005 is/are:	a)⊠ accepted or b)□ objected	to by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents	s have been received in Application	on No	
<ol><li>Copies of the certified copies of the prior</li></ol>	ity documents have been receive	d in this National Stage	
application from the International Bureau			
* See the attached detailed Office action for a list	of the certified copies not receive	d.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		ļ
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	ite atent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:		
S. Patent and Trademark Office		·····	

Application/Control Number: 10/522,858 Page 2

Art Unit: 1621

#### **DETAILED ACTION**

#### Information Disclosure Statement

1. The listing of references in the Search Report is not considered to be an information disclosure statement (IDS) complying with 37 CFR 1.98. 37 CFR 1.98(a)(2) requires a legible copy of: (1) each foreign patent; (2) each publication or that portion which caused it to be listed; (3) for each cited pending U.S. application, the application specification including claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion, unless the cited pending U.S. application is stored in the Image File Wrapper (IFW) system; and (4) all other information, or that portion which caused it to be listed. In addition, each IDS must include a list of all patents, publications, applications, or other information submitted for consideration by the Office (see 37 CFR 1.98(a)(1) and (b)), and MPEP § 609 subsection III. A(1) states, "the list ... must be submitted on a separate paper." Therefore, the references cited in the Search Report have not been considered. Applicant is advised that the date of submission of any item of information or any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the IDS, including all "statement" requirements of 37 CFR 1.97(e). See MPEP § 609 subsection III. C(1).

#### Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is

Art Unit: 1621

requested in correcting any errors of which applicant may become aware in the specification.

- 3. The disclosure is objected to because of the following informalities: A section headed <u>Brief Description of the Several Views of the Drawing(s) is required</u>: See MPEP § 608.01(f). A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74. Appropriate correction is required.
- 4. A substitute specification including the claims is required pursuant to 37 CFR 1.125(a) because the specification is replete with errors and poorly rendered drawings. For example:
  - a. The image on page 2 of the specification is undecipherable;
  - b. The appearance of a division symbol on page 7, lines 9 and 12 renders these lines incomprehensible;
  - c. The formula on page 10 is blurred and it is difficult to read the subscripted numbers with certainty.

Applicants should ensure that these errors and any others are corrected.

A substitute specification must not contain new matter. The substitute specification must be submitted with markings showing all the changes relative to the immediate prior version of the specification of record. The text of any added subject matter must be shown by underlining the added text. The text of any deleted matter must be shown by strike-through except that double brackets placed before and after the deleted characters may be used to show deletion of five or fewer consecutive

Art Unit: 1621

characters. The text of any deleted subject matter must be shown by being placed within double brackets if strike-through cannot be easily perceived. An accompanying clean version (without markings) and a statement that the substitute specification contains no new matter must also be supplied. Numbering the paragraphs of the specification of record is not considered a change that must be shown.

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 5-7 are rejected under 35 U.S.C. 101 because they are- drawn to non-statutory matter. The claimed recitation of a process, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example Ex parte Dunki, 153 USPQ 678 (Bd.App. 1967) and Clinical Products, Ltd. v. Brenner, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 5-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which

Application/Control Number: 10/522,858

Art Unit: 1621

applicant regards as the invention. Claims 5-7 drawn to the use of compounds of the invention as scale inhibitors, corrosion inhibitors and sequestering agents, but since the claims do not set forth any steps involved in the methods/processes, it is unclear what methods/processes Applicants intend to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced. Claims 5-7 are therefore rendered indefinite.

Page 5

- 7. Claims 2- 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 2 recites the limitation "con" on lines 6, 7, 9 and 10. The meaning of this limitation is unknown and it is impossible to determine the intended scope of claim 2. Claim 2 and its dependents are therefore rendered indefinite.
- 8. Claims 2- 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 2 recites a division symbol on lines 7 and 10. The meaning of this limitation is unknown and it is impossible to determine the intended scope of claim 2. Claim 2 and its dependents are therefore rendered indefinite.
- 9. Claims 2- 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The variable R is defined in terms of itself (See lines 6 and 9) leading to a circular definition that is unclear. In addition, R has been

Application/Control Number: 10/522,858 Page 6

Art Unit: 1621

previously defined in claim 1 leading to confusion over the definition of R in operation. Claim 2 and its dependents are therefore rendered indefinite.

10. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Is unclear how the indicated groups are attached to the terminal – CH<sub>2</sub>PO<sub>3</sub>H<sub>2</sub> as required by claim 3. Claim 3 is therefore rendered indefinite.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 11. Claims 1,2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Stewart et al (EP 0479462-A1 04-1992). Stewart discloses (Page 7, Table, entry 13) a compound of the invention. Stewart discloses (Page 5, line 30- page 6, line 3) use of the Mannich reaction to make the compounds of the invention. Stewart therefore anticipates claims 1,2 and 4.
- 12. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Harris et al (GB 1,392,044 06-1971). Harris discloses (Page 10, Table 2, entries 17-19) compounds of invention in which all R groups (according to claim 1) are— CH<sub>2</sub>PO<sub>3</sub>H<sub>2</sub>. Harris therefore anticipates claims 1 and 2.

Application/Control Number: 10/522,858 Page 7

Art Unit: 1621

## Claim Objections

13. Claim 3 is objected to because of the following informalities:

- a. Line 1, the word "one" is misspelled;
- b. Lines 3, the word "moieties" is twice mispelled.

Appropriate correction is required.

#### Conclusion

14. Claims 1-7 are pending. Claims 1-7 are rejected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul A. Zucker whose telephone number is 571-272-0650. The examiner can normally be reached on Monday-Friday 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann R. Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Application/Control Number: 10/522,858

Art Unit: 1621

Page 8

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

PAUL A. ZUCKER, PH.D. PRIMARY EXAMINER